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Notice of Allowability	Application No.	Applicant(s)	
	10/070,080	DO BENTO VIEIRA, ANTONIO	
	Examiner	Art Unit	
	David Nhu	2818	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	olication. If not includ- will be mailed in due	ed course. <b>THIS</b>
1. X This communication is responsive to 2/17/04.			
2. ⊠ The allowed claim(s) is/are <u>28-46</u> .			
3. $igotimes$ The drawings filed on <u>01 July 2002</u> are accepted by the Ex	kaminer.		
4.  Acknowledgment is made of a claim for foreign priority unal	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application.  hitted. Note the attached EXAMINER es reason(s) why the oath or declara st be submitted. son's Patent Drawing Review ( PTO s Amendment / Comment or in the Co 84(c)) should be written on the drawing the header according to 37 CFR 1.121(c) sit of BIOLOGICAL MATERIAL r	national stage applicational stage application of the front (not the d).	quirements IOTICE OF
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 08), 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), le nent/Comment	
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## **REASONS FOR ALLOWANCE**

1. Claims 28-46 are allowed.

- 2. The following is an examiner's statement of reasons for allowance: None of the references of record teaches or suggests in claims 28, 32: a die carrier which does not extend in front of said sensors and which has one or more bond pads comprising bond terminals and having external lead bonds, the bond pads of said die carrier and the bond pads of said die determining between them an annular interface area and being coupled in this area; wherein the die carrier has a first opening larger than the one or more sensors but smaller than the semiconductor die and has one or more external terminals, the top surface of the semiconductor die being attached to the bottom surface of the die carrier such that the one or more sensors are disposed below the first opening and an interface area is formed where the top surface of the semiconductor die extends beyond the first opening in the die carrier and each bond pad is coupled to a portion of one of the externals that is exposed on the bottom surface of the die carrier, and the semiconductor die package further comprising: a sealing ring encapsulating the interface area; and a packaging material encapsulating the bottom surface of the die carrier and a bottom surface of the semiconductor die.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## CONCLUSION

4. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure: Rostoker et al (5,773,886): System Having Stackable Heat Sink Structures.

5. Any inquiry concerning this communication on earlier communications from the examiner

should be directed to David Nhu, (571)272-1792. The examiner can normally be reached

on Monday-Friday from 7:30 AM to 5:00 PM.

The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is

(703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should

be directed to the receptionist whose telephone number is (703) 308-0956.

David Nhu

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February 19, 2004

DAVID NHU PRIMARY EXAMIN

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